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Total Number of Pages in This Submission

10

Application Number

10/068,664

Filing Date

02/06/2002

First Named Inventor

Chuan LI

Art Unit

1636

Examiner Name

James S. Ketter

Attorney Docket Number

ENCLOSURES

(Check all that apply)

<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance Communication to TC
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<input checked="" type="checkbox"/> Amendment/Reply	<input type="checkbox"/> Petition	<input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
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Remarks

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name			
Signature	<i>Chuan Li</i>		
Printed name	Chuan LI		
Date	6/15/06	Reg. No.	

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Amendments to application: DE NOVO SYNTHESIZED PLASMID, METHODS OF
MAKING AND USE THEREOF

Applicant Name: Chuan Li

Date: June 15, 2006

Application/Control Number: 10/068,664

Art Unit: 1636

a.) Introductory Comments

These are amendments of application (Application Number: 10/068,664) filed on February 6, 2002. The plasmids disclosed in the application are novel plasmids. Each of them can be used independently. Some of these plasmids or their derivatives were used together to make other plasmids and DNA fragments or to express recombinant proteins. It has not been shown if all these plasmids can be used together. The possibility that all disclosed plasmids can be used together cannot be ruled out. In addition, all disclosed plasmids have similar design, modes of operation and effects. For example, all these plasmids are designed to have a replication origin and a selection marker. Same adaptor sequences are used in each plasmid to link a replication origin and a selection marker sequences together. The complete sequences of a plasmid are different than those of another plasmid. However two plasmids may share a same replication origin or a selection marker. All plasmids are made based on the design that a plasmid can be made with a replication origin and a selection marker. They are all made by same experiment procedures.

New claims are being submitted as part of these amendments; these claims are submitted to be patentable over the art of record in the parent cases for the following reasons.

1. All Plasmids claimed in new claims 26, 31, and 36 are new plasmids.
2. All Plasmids claimed in new claims 26, 31, and 36 are useful. They are used in making other plasmids, DNA vectors, and cell strains. All these resulting products are useful in various biomedical applications.
3. All Plasmids claimed in new claims 26, 31, and 36 are not obvious. Each of the claimed plasmids is smaller in size than any plasmid containing same replication

origin and selection marker reported in the previous arts. Sequences of unknown or undesirable functions are eliminated from the claimed plasmids. These junk sequences contribute to cellular energy drain and are detrimental to future plasmid usages and applications. Eliminating these junk sequences will allow host cells grow better and more useful sequences to be put in these plasmids. All plasmids have cloning or size limit. The less junk sequences a plasmid contains, the more useful sequences may be put in the plasmid. In addition to the small size, many other features presented in previous communications indicate that these claimed plasmids are not obvious.

In conclusion, the disclosed plasmids are new, useful and unobvious. It is neither anticipated nor obvious over any prior teaching or any prior arts or combination of them. Therefore the re-written claims are submitted that patentable subject matter is clearly present. If the examiner agrees but does not feel that the present claims are technically adequate, applicant respectfully requests that the examiner write acceptable claims pursuant to MPEP 707.07(j).